

Abstract

Method And Device For Increasing The Safety Of Operation Of An Electrical Component

The diagnostics for a switched high-current or safety-relevant load (M) are extended to include active detection of a change in switching state of the load (M) independently of the instant of active actuation by the microcontroller ( $\mu$ C) and/or a superordinate control unit (SG). The diagnostic feedback is preferably applied to a "wake up" interrupt input of the microcontroller ( $\mu$ C). This allows active diagnostics in the event of a state change of the load (M), even if the controller ( $\mu$ C) is in power-down mode ( $\mu$ C<sub>stop</sub>).